CLAIMS

What is claimed is:

1. A method comprising:

receiving a request from a first client device to download a file to be transmitted as a plurality of packets of data from a server device;

multicasting the plurality of packets to multiple client devices including the first client device;

requesting, when the first client has completed download of the file, using a reliable protocol with a second client device from the multiple client devices packets not received by the second client device.

- 2. The method of claim 1 wherein the multicasting of the plurality of packets comprises multicasting to the multiple clients using a multicast Trivial File Transfer Protocol (TFTP).
- 3. The method of claim 1 wherein the reliable protocol comprises a Trivial File Transfer Protocol (TFTP).
- 4. The method of claim 1 wherein the download of the file occurs during a pre-boot phase of the first client device.

- 5. The method of claim 4 wherein the file comprises a boot image for the first client device.
- 6. The method of claim 1 wherein the second client device tracks packet gaps within the requested file and the size of the packet gaps during the multicast of the file.
- 7. A computer-readable medium having stored thereon instructions that, when executed, cause one or more processors to:

receive a request from a first client device to download a file to be transmitted as a plurality of packets of data from a server device;

multicast the plurality of packets to multiple client devices including the first client device;

request, when the first client has completed download of the file, using a reliable protocol with a second client device from the multiple client devices packets not received by the second client device.

8. The medium of claim 7 wherein the multicasting of the plurality of packets comprises multicasting to the multiple clients using a multicast Trivial File Transfer Protocol (TFTP).

- 9. The medium of claim 7 wherein the reliable protocol comprises a Trivial File Transfer Protocol (TFTP).
- 10. The medium of claim 7 wherein the download of the file occurs during a pre-boot phase of the first client device.
- 11. The medium of claim 10 wherein the file comprises a boot image for the first client device.
- 12. The medium of claim 7 wherein the second client device tracks packet gaps within the requested file and the size of the packet gaps during the multicast of the file.
 - 13. A system comprising:

one or more processors;

a network interface coupled with the one or more processors; and computer-readable medium coupled with the one or more processors having stored thereon instructions that, when executed, cause one or more processors to receive a request from a first client device to download a file to be transmitted as a plurality of packets of data from a server device, multicast the plurality of packets to multiple client devices including the first client device and request, when the first client has completed download of the file, using a reliable

protocol with a second client device from the multiple client devices packets not received by the second client device.

- 14. The system of claim 13 wherein the multicasting of the plurality of packets comprises multicasting to the multiple clients using a multicast Trivial File Transfer Protocol (TFTP).
- 15. The system of claim 13 wherein the reliable protocol comprises a Trivial File Transfer Protocol (TFTP).
- 16. The system of claim 13 wherein the download of the file occurs during a pre-boot phase of the first client device.
- 17. The system of claim 10 wherein the file comprises a boot image for the first client device.
- 18. The system of claim 13 wherein the second client device tracks packet gaps within the requested file and the size of the packet gaps during the multicast of the file.